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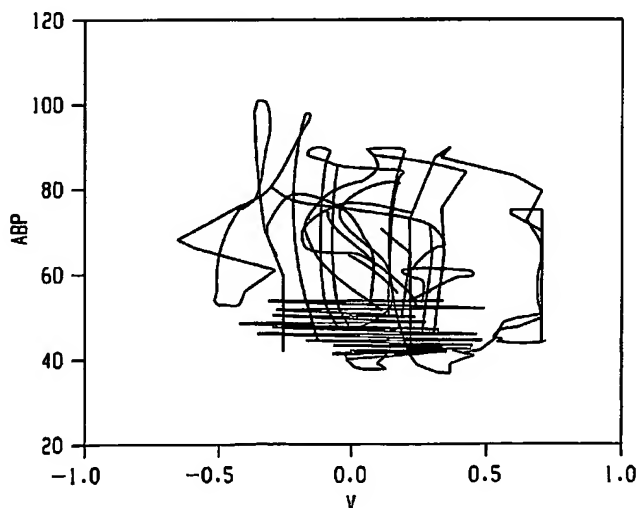
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(54) Title: **DECISION SUPPORT SYSTEM TO DETECT THE PRESENCE OF ARTIFACTS IN PATIENTS' MONITORING SIGNALS USING MORPHOGRAMS**



(57) Abstract: A method for monitoring a patient (110) includes determining (114) convex hulls for pairs of monitored signals from the patient, and determining whether a perturbation has occurred (115, 116) in one or more of the convex hulls. This exemplary embodiment (110) can also include alerting an operator that a clinically significant change may have occurred (117) in the patient if each of the convex hulls has been perturbed. If only a subset of the convex hulls is perturbed, an artifact has probably occurred (118).

**Declaration under Rule 4.17:**

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